Index of Claims

| Application/Control No. | App | lication/ | Control | No. |
|-------------------------|-----|-----------|---------|-----|
|-------------------------|-----|-----------|---------|-----|

10/765,914

Examiner

Applicant(s)/Patent under Reexamination

KOMIYAMA ET AL.

Art Unit

Laura A. Grier

Interference

2644

o

| 7  | Rejected |
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| 11 | Allowed  |

(Through numeral) Cancelled

Restricted

Non-Elected Ν

**Appeal** 

**Objected** 

| Claim   |          |          |           |                 |         |         |  |                         |         |    |          |          |          |          |                  |          |                    |          |               |              |          |          |                  |          |         |              |              |                 |          |
|---|----------|----------|-----------|-----------------|---------|---------|--|-------------------------|---------|----|----------|----------|----------|----------|------------------|----------|--------------------|----------|---------------|--------------|----------|----------|------------------|----------|---------|--------------|--------------|-----------------|----------|
| 1   | Cli      | aim_     |           |                 |         |         |  | Claim Date              |         |    |          |          |          |          | _                | Ç        | laim               |          | _             |              | Dat      | е        |                  |          |         |              |              |                 |          |
| 1   | Final    | Original | 0/9/5     |                 |         |         |  |                         |         |    | Final    | Original |          |          |                  |          |                    |          |               |              | Final    | Original |                  |          |         |              |              |                 |          |
| 2   | ļ        |          | 1         | $\dashv$        | +       | ╁       | -  | ++                      |         | -  |          | <u> </u> | Н        | +        | +-               | +-       | $\vdash$           |          |               | -            |          | 1        | $\vdash$         | +        | ╁       | +            | $\vdash$     |                 |          |
| 3   | $\vdash$ |          |           | +               |         | +       | +  | ++                      |         | -  | -        |          | $\vdash$ | +        | +-               | ╁        | $\vdash$           |          |               | -            | -        |          | <del>    -</del> | +        | +       | +            | ┼            | H               | +        |
| 4   | <u> </u> |          |           | $\dashv$        |         | +       | +  | ${}^{\dagger}$          | -       | 7  |          |          | Н        | $\dashv$ | +                | +-       |                    | -        | -             | 1            |          |          | $\vdash$         | +        | +       | +            | ╁            | H               | $\dashv$ |
| 5   |          |          | 1         |                 |         | 1       | ╈  | Ħ                       |         | 1  |          |          | П        | 十        | $\top$           | 1        | H                  |          | 1             | 1            | _        |          |                  | +        | +       | +            | t            |                 | _        |
| 6   | $\vdash$ |          |           | $\overline{}$   |         | +       | $\top$   | $\Box$                  |         |    |          |          | П        |          | $\top$           |          |                    |          |               | 1            | <u> </u> |          |                  | 十        | +       | 1            | T            |                 |          |
| 7   |          |          | 1         |                 |         | ┪       | Τ  | П                       |         |    |          |          | П        |          |                  | $\top$   |                    | $\neg$   |               | 1            |          |          |                  | T        | $\top$  | 1            |              |                 |          |
| 9   |          |          |           |                 |         |         | T  |                         |         |    |          |          |          |          |                  | T        | П                  | 7        |               | 1            |          |          |                  |          | T       | 1            | 1            | П               |          |
| 10  |          | 8        |           |                 |         |         |  |                         |         |    |          |          |          |          |                  |          |                    |          |               | ]            |          |          |                  | T        | T       | 1            | Т            | Г               |          |
| 111   |          |          | Ш         |                 |         |         |  |                         |         |    |          |          |          |          |                  |          |                    |          |               |              |          |          |                  |          |         |              | Π            |                 |          |
| 12  |          |          | Ш         | $\perp$         |         |         |  |                         |         | ⅃᠁ |          |          | Ш        |          |                  |          |                    |          |               |              |          |          |                  |          |         |              |              |                 |          |
| 13  | <u> </u> |          |           | _               | $\bot$  | $\perp$ | _  | Ш                       |         | _  |          |          |          | $\perp$  |                  | <u> </u> |                    | _        |               | _            | L        |          |                  |          |         |              |              |                 |          |
| 14  |          |          | Ш         |                 | _       | _       | _  | $\downarrow \downarrow$ | _ _     | _  |          |          |          |          | ᆜ_               |          |                    | _        |               | _            |          |          |                  | $\perp$  | _       | ┸            |              |                 |          |
| 15  | <u> </u> |          | $\square$ | 4               | 4       | $\perp$ | -  | 1-1                     | $\perp$ | 4  |          |          |          | 4        | _                | ↓_       | 1                  | _        |               | _            | L        |          |                  | <u> </u> | $\perp$ | ┸            | L            | Ш               |          |
| 16  | -        |          |           | $\dashv$        | 4       | -       | +  | +                       | -       | -  |          |          |          | _        | 4                | +-       | $\sqcup$           | 4        |               | 4            | L        |          |                  | -        | 4       | ↓_           |              | <u> </u>        |          |
| 17  |          |          | $\vdash$  |                 | +       | +       | +  | 1 1                     |         | -  |          |          | $\sqcup$ | -        |                  | +-       | $\vdash$           |          | _             | 4            |          | 115      | $\sqcup$         | $\bot$   | ╀       | ╁            | ļ.,          |                 | 4        |
| 18  |          |          | ┼─┤       | -               | +       | +       | +  | ╁╌╂                     | -       | -  |          |          | ₩        |          |                  | +-       |                    | $\dashv$ | +             | 4            |          |          | $\vdash$         | +        | ╀       | ╀            |              | ļ               |          |
| 19  |          |          | $\vdash$  | -               | +       | +       | +  | +                       |         | -  | <u> </u> |          | $\vdash$ | +        |                  | +-       | $\vdash$           |          | +             | -            |          |          | $\vdash$         | +        | +       | +-           | -            | Н               | _        |
| 120   |          |          | $\vdash$  | +               | +       |         | ╁  | +                       | +       | -  |          |          | $\vdash$ | -        | +                | +-       | $\vdash$           | $\dashv$ |               | -            | <u> </u> |          | $\vdash$         | +        | +-      | ╀            | <u> </u>     | H               | +        |
| 21   121   121   122   122   123   124   123   124   123   124   124   124   124   125   125   125   126   126   126   126   126   126   126   126   126   127   127   127   127   127   127   127   128   129   130   130   130   130   130   130   130   130   131   131   131   131   131   131   131   132   132   133   13   |          |          |           | $\dashv$        | +       | +       | +  | ╁┼                      | +       | ┨  |          |          | $\vdash$ | -+       | +                | ╁        | -                  | $\dashv$ | _             | <b>∤</b> ःःः | -        |          | $\vdash$         | +        | ╁       | ╁╌           |              | -               |          |
| 22     123     122     123     123     123     123     123     123     123     123     124     124     124     124     125     125     125     126     126     127     127     127     127     127     127     127     127     128     128     128     128     129     129     129     129     129     130     130     130     131     131     132     132     133     133     133     133     133     133     133     133     133     133     133     133     134  |          |          | $\Box$    | $\dashv$        | +       | +       | ╁  | +-+                     |         | 1  |          |          | $\vdash$ | -+       | +                | +        | $\vdash$           | -        | -             | ┨            |          |          | $\vdash$         | +-       | +       | ╁            | <del> </del> | $\vdash$        | -+       |
| 23   1  |          |          | 1         | $\dashv$        | +       | ╅       | 十  | 1-1                     | +       | 1  | <b></b>  |          | $\Box$   |          | +-               | ╅        |                    | _        | +             | -            |          | 122      | $\vdash$         | +        | +       | +-           | 1            |                 | _        |
| 24     124     124     124     125     125     126     125     126     126     126     126     126     126     126     127     127     127     127     127     128     128     128     128     128     128     128     128     129     129     129     129     130     130     130     130     130     133     133     133     133     133     133     133     133     133     133     133     133     133     133     133     134     135     135     135     135     135     135     135     135     135     135     135     136     136     136     137     137     137     137     137  |          |          | Н         | $\dashv$        | 十       | 十       | $\top$   | 1 1                     | $\neg$  | 1  |          |          | $\vdash$ | $\vdash$ |                  | +-       |                    | $\dashv$ | _             | 1::::        |          |          | -                | +        | +       | †-           | $\vdash$     |                 | +        |
| 25     125     126     126     126     126     126     126     127     127     127     127     127     127     127     127     128     128     128     128     128     128     128     129     129     129     129     130     130     130     130     131     131     131     131     131     131     132     132     132     132     133  |          | 24       | П         |                 | $\top$  | +       | 1  | 1 1                     |         | 1  |          |          | Н        | o        | +-               | +-       | $\Box$             | 寸        |               | 1            |          |          |                  | ╁        | +-      | ╁            |              | H               | -        |
| 26     76     126     127     128     127     128     127     128     127     128     127     128     128     129     129     129     129     129     130     130     130     131     131     131     131     131     131     132     132     132     133     133     133     133     133     133     133     133     134     134     134     134     134     134     134     134     134     134     134     134     134     135     135     136     136     136     136     136     137     137     137     137     138     138     139     139     139     139     139     139     139     139     140     141     141     141     141     142     143     143     144     144     144     144     144     144     144     144     144     144     144     144     144     144     144     144   |          |          | П         |                 | $\top$  | T       |  |                         |         |    |          |          |          |          | 1                | $T^{-}$  |                    | T        | $\top$        | 7            |          | 125      | $\top$           | $\top$   | 十       | †            | $\vdash$     |                 |          |
| 27     127     78     128     128     128     128     128     128     129     129     129     129     129     129     129     130     130     130     130     131     131     131     131     132     132     133   |          |          |           | T               |         | $\top$  |  | $\sqcap$                |         | 1  |          |          |          |          |                  | 1        |                    | T        |               | 7            |          |          | $\top$           | 1        | 1       | 1            |              |                 |          |
| 29   129     30   130     31   131     32   132     33   133     34   134     35   135     36   136     37   137     38   88     39   139     40   90     41   91     42   92     43   94     44   94     44   94     45   96     46   97     48   98     49   144     48   98     49   144   |          |          |           |                 |         |         |  |                         |         |    |          | 77       |          |          |                  |          |                    |          |               | 7            |          | 127      |                  | 1        | 1       | $\top$       |              |                 |          |
| SO  |          |          |           |                 |         |         |  |                         |         |    |          |          |          |          |                  |          |                    |          |               | ]!!!!        |          |          |                  | T        | T       |              |              |                 |          |
| 31   32   33   34   35   35   36   37   37   38   39 <td< td=""><td></td><td></td><td>Ш</td><td></td><td></td><td>┸</td><td><math>oldsymbol{ol}}}}}}}}}}}}}}}}}}</math></td><td></td><td><math>\perp</math></td><td></td><td><u> </u></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>]</td><td></td><td></td><td></td><td>T</td><td></td><td></td><td></td><td></td><td></td></td<> |          |          | Ш         |                 |         | ┸       | $oldsymbol{ol}}}}}}}}}}}}}}}}}}$ |                         | $\perp$ |    | <u> </u> |          |          |          |                  |          |                    |          |               | ]            |          |          |                  | T        |         |              |              |                 |          |
| 32  |          |          | Ш         | _               | _       | ┸       | _  | 1-1                     |         |    |          |          | Ш        |          |                  |          |                    |          |               | ]            |          |          |                  |          | L       | L            |              |                 |          |
| 33   34   35   36   37   38   37   38   39 <td< td=""><td></td><td></td><td></td><td>4.</td><td><math>\perp</math></td><td>4</td><td>_</td><td><math>\sqcup</math></td><td>_ _</td><td>J</td><td>Ĺ</td><td></td><td>Ш</td><td> </td><td></td><td></td><td>Ш</td><td>_</td><td></td><td>1</td><td></td><td></td><td></td><td>1</td><td><math>\perp</math></td><td><math>oxed{oxed}</math></td><td>L</td><td></td><td></td></td<>  |          |          |           | 4.              | $\perp$ | 4       | _  | $\sqcup$                | _ _     | J  | Ĺ        |          | Ш        |          |                  |          | Ш                  | _        |               | 1            |          |          |                  | 1        | $\perp$ | $oxed{oxed}$ | L            |                 |          |
| 34   35   36   36   36   37   38   37   38   39 <td< td=""><td></td><td></td><td><math>\vdash</math></td><td>4</td><td>_</td><td><math>\perp</math></td><td><math>\bot</math></td><td><math>\vdash \vdash</math></td><td>+</td><td>4</td><td></td><td></td><td></td><td>_</td><td>_</td><td>_</td><td><math>\Box</math></td><td>_</td><td></td><td>4</td><td>L</td><td></td><td></td><td>_</td><td>╽.</td><td>ļ.,</td><td>L</td><td></td><td></td></td<>  |          |          | $\vdash$  | 4               | _       | $\perp$ | $\bot$   | $\vdash \vdash$         | +       | 4  |          |          |          | _        | _                | _        | $\Box$             | _        |               | 4            | L        |          |                  | _        | ╽.      | ļ.,          | L            |                 |          |
| 35       85   | -        |          | $\vdash$  | 4               | -       | +       | +  | $\vdash$                |         | 4  |          |          | Н        |          | -                | ╄        |                    | 4        | -             | -            | <u> </u> |          |                  | 4        | $\perp$ | -            | <u> </u>     |                 | _        |
| 36   37   38   87   37   38   39   38   39   38   39 <td< td=""><td><u> </u></td><td>34</td><td><math>\vdash</math></td><td>+</td><td>+</td><td>╀</td><td>-</td><td><math>\vdash</math></td><td></td><td>-</td><td></td><td></td><td><math>\vdash</math></td><td>-</td><td></td><td><math>\vdash</math></td><td><math>\vdash</math></td><td><math>\dashv</math></td><td></td><td>4</td><td></td><td></td><td></td><td>┿</td><td>4</td><td>┼</td><td><u> </u></td><td><math>\vdash</math></td><td>-</td></td<>  | <u> </u> | 34       | $\vdash$  | +               | +       | ╀       | -  | $\vdash$                |         | -  |          |          | $\vdash$ | -        |                  | $\vdash$ | $\vdash$           | $\dashv$ |               | 4            |          |          |                  | ┿        | 4       | ┼            | <u> </u>     | $\vdash$        | -        |
| 37   88   137   138     38   90   138   138     40   90   140   140     41   91   141   141     42   92   142   142     43   93   143   144     45   95   146   146     47   97   147     48   98   148     49   99   149   | -        |          | $\vdash$  | $\dashv$        |         | +       | +  |                         | -       | -  |          |          | $\vdash$ | -        | -                | -        | $\vdash$           | -+       |               | -            |          |          |                  | +-       | +       | -            | L            | $\vdash \vdash$ |          |
| 38   39   38   39   38   39 <td< td=""><td><math>\vdash</math></td><td></td><td>Н</td><td><math>\dashv</math></td><td>+</td><td>┿</td><td>+</td><td><del>-</del></td><td>+</td><td>-</td><td></td><td></td><td><math>\vdash</math></td><td>+</td><td></td><td>-</td><td><math>\vdash</math></td><td><math>\dashv</math></td><td></td><td>-</td><td><u> </u></td><td></td><td>+</td><td>+</td><td>╀</td><td>+-</td><td><u> </u></td><td>Н</td><td></td></td<>  | $\vdash$ |          | Н         | $\dashv$        | +       | ┿       | +  | <del>-</del>            | +       | -  |          |          | $\vdash$ | +        |                  | -        | $\vdash$           | $\dashv$ |               | -            | <u> </u> |          | +                | +        | ╀       | +-           | <u> </u>     | Н               |          |
| 39   89   139     40   90   140     41   91   141     42   92   142     43   93   143     44   94   144     45   95   145     46   96   146     47   97   147     48   98   148     49   99   149   | <u> </u> |          | Н         | +               | +       | +       | +  | $\vdash$                | +       | -  |          |          | $\vdash$ | +        | +-               | $\vdash$ |                    | +        |               | -            |          |          | -                | ╁        | +-      | ╄            | <u> </u>     | $\vdash$        |          |
| 40   90   140   140   141   |          |          | Н         | +               | +       | ╁       | +  | +                       | +-      | -  |          |          | $\vdash$ | +        | +                | +-       | $\dashv$           | $\dashv$ | +             | -            | ·        |          |                  | +-       | +       | +-           |              | Н               | -        |
| 41   91   141   141   142   142   142   142   142   144   | <u> </u> |          | $\vdash$  | +               | +       | +       | +-   | +                       | -       | -  |          |          | $\vdash$ | +        | +                | +-       | $\vdash$           | $\dashv$ |               | -            |          |          | -                | ╁        | ┿       | ╁            | -            | $\vdash$        |          |
| 42   92   142   142   143     43   93   143   143   144     44   94   144   144   144     95   95   145   146   146     47   97   147   147   147     48   98   98   148   148   148     49   99   99   149   149   |          | 41       | $\vdash$  | $\dashv$        | +       | +       | ╅╌   | $\vdash$                | +       | 1  |          |          | ╌┼       | -        | +-               | +        | -                  | -+       | +             | 1            |          |          | +-               | +        | +       | ╁╌           | $\vdash$     | $\vdash$        | -        |
| 43   93   143   143   143   144   |          |          |           | $\dashv$        | +       | ╁       | +-   | H                       | +       | 1  |          |          | $\vdash$ | $\dashv$ | +                | +        | -+                 | $\dashv$ | +             | -            |          |          | -+               | +        | ╁       | ╁            | ├-           | $\vdash$        | +-       |
| 44   94   144   144   145     45   95   145   145   145     46   96   146   146   147     47   97   147   147   147     48   98   98   148   148   148     49   99   99   149   149   |          | 43       | $\Box$    |                 | $\top$  | $\top$  | +  | 1-1                     | +       | 1  | -        |          | $\vdash$ | +        | +                | +-       | $\dashv$           | -+       | +             | 1            |          | 143      | $\dashv$         | +        | ╁       | $\vdash$     |              | $\vdash$        | -        |
| 45 95 145   46 146   47 96   97 147   48 98   99 148   147   148   148   148   148   148   148   149  |          |          | $\dashv$  | $\neg \uparrow$ | 十       | $\top$  | $\top$   |                         | _       | 1  |          |          | $\vdash$ | $\dashv$ | +                | 1-       | $\vdash$           | 7        | +             | 1            |          | 144      | $\dashv$         | +        | +-      | $\vdash$     | $\vdash$     | $\vdash \vdash$ | $\dashv$ |
| 46 96   47 97   48 98   49 148  |          | 45       |           | 十               | $\neg$  | $\top$  | <b>T</b>   |                         | $\top$  |    |          | 95       | $\dashv$ | 十        | $\top$           |          | $\dashv$           | 寸        |               | 1            |          | 145      | $\dashv$         | +        | +       | †            | <b>-</b>     | $\vdash$        | +        |
| 47  |          | 46       |           |                 |         | 1       | T  | $\sqcap$                | 1       | 1  |          |          |          | $\top$   | $\top$           |          |                    | 寸        | $\neg \vdash$ | 1            |          |          | $\dashv$         | T        | †       | 1            | $\vdash$     | $\vdash$        | $\dashv$ |
| 48  |          | 47       |           | I               |         |         |  |                         |         | ]  |          | 97       |          | $\top$   | Τ                |          | $\Box$             | 寸        | $\neg \vdash$ | 1            |          |          | $\dashv$         | $\top$   | †       | 1            | П            | $\vdash$        | _        |
| 49 99 149 149   |          | 48       |           | Ι               | I       | l       |  |                         |         |    |          | 98       |          |          | $\mathbf{I}^{-}$ |          | $\Box$             | _        | $\neg$        | ]            |          | 148      | _                | $\top$   | T       | T            |              | $\sqcap$        |          |
|   |          | 49       |           |                 | floor   |         |  |                         |         | ]  |          | 99       |          |          |                  |          |                    |          |               |              |          | 149      |                  | 1        |         | Т            |              |                 | $\neg$   |
|   | L        | 50       |           |                 |         |         | L  | L_L                     |         | ]  |          | 100      |          |          |                  |          | $\cdot \mathbb{I}$ |          |               |              |          |          |                  |          |         |              |              |                 |          |